Amendments to the Specification:

Please replace the paragraphs beginning on page 2, line 23 with the following rewritten paragraphs:

-- Fig. 1 Fig. 1a is a side view of an ink jet chamber of the present invention positioned upon a substrate, showing the creation of features by exposing a photo-imageable material through a first mask;

Fig. 1a Fig. 1b is a side view of an ink jet chamber of the present invention situated upon a substrate, showing the creation of features by exposing a photo-imageable material through a second mask;

Fig. 1b Fig. 1c is a side view of an ink jet chamber of the present invention situated upon a substrate, showing finished features after curing and removal of uncured and unexposed photo-imageable material;

Fig. 2 Fig. 2a is a side view of an ink jet chamber of the present invention, situated upon a substrate, showing multiple ink jet chambers with substantially similar chamber volumes and output nozzles;

Fig. 2a Fig. 2b is a side view of an ink jet chamber of the present invention, situated upon a substrate, showing multiple ink jet chambers with substantially different chamber volumes and output nozzles;

Fig. 3 Fig. 3a is a side view of an ink jet chamber of the present invention where an internal member provides a plurality of functions;

Fig. 3a Fig. 3b is an end view of the ink jet chamber of the present invention taken along line 3a-3a of Fig. 3 3b-3b of Fig. 3a; --

Please replace the paragraphs beginning on page 3, line 13 with the following rewritten paragraphs:

-- Fig. 5 Fig. 5a is a side view of an ink jet chamber of the present invention in which a collimated light source creates plurality of geometrically shaped structures; and

Fig. 5a Fig. 5b is a side view of an ink jet chamber of the present invention in which an uncollimated light source creates plurality of geometrically shaped structures by exposing through a mask. --

Please replace the paragraph beginning on page 3, line 21 with the following rewritten paragraph:

Referring to Fig.1 Fig. 1a, there is shown a side view of an ink jet chamber assembly 10 situated upon a substrate 20, which illustrates the creation of vertical structures (hereafter called a chamber wall) 30 by exposing a photo-imageable material 40 through a first mask 50. First mask 50 is designed to both block and pass the exposing light 60. The exposing light 60 that is passed by first mask 50 prepares the exposed portion of the photo-imageable material 40 through its entire thickness down to the substrate 20. This produces an exposed photo-imageable material that becomes the chamber walls 30 horizontally adjacent to the thermal element 70. The exposing light 60 used for exposing the photo-imageable material 40 through the first mask 50 can be variably adjustable in intensity, dose, and wavelength for the purpose of modifying the resultant structures produced in the photo-imageable material 40. In regards to wavelengths of the exposing light 60, those wavelengths can consist of a plurality of conditions including fixed, variable, single, dual, multiple or mixed. --

Please replace the paragraph beginning on page 4, line 18 with the following rewritten paragraph:

Referring now to Fig. 1a Fig. 1b, there is illustrated a side view of an ink jet chamber assembly 10, of the present invention. It is positioned upon a substrate 20, showing the creation of a horizontal structure (hereafter called a chamber roof) 80 by exposing the photo-imageable material 40 (from Fig. 1 Fig. <u>1a</u>) through a second mask 90. It is apparent to those skilled in the art that the first mask 50 has been discarded and replaced by second mask 90. Second mask 90 is designed to both block and pass the exposing light 60. The light that is passed by second mask 90 prepares the photo-imageable material 40 for producing an exposed photo-imageable material 40, which becomes the chamber roof 80 positioned vertically above and adjacent the thermal element 70. This second exposure is preferably performed immediately following the first exposure described in Fig. 1a Fig. 1b. Alternatively, for robustness, a short baking under heat is performed prior to second exposure. The exposing light 60 used for exposing the photo-imageable material 40 through the second mask 90 can be variably adjustable in intensity, dose, and wavelength for the purpose of modifying the resultant structures produced in the photo-imageable material 40 (from Fig. 1 Fig. 1a). In regards to wavelengths of the exposing light 60, those

wavelengths can consist of a plurality of conditions including fixed, variable, single, dual, multiple or mixed. --

Please replace the paragraphs beginning on page 5, line 12 with the following rewritten paragraphs:

Still referring to Fig. 1a Fig. 1b, a shaded area that represents unexposed photo-imageable material 100 remains (formerly 40 at Fig. 1 Fig. 1a). It will be instructive to note that a semi-finished ink jet chamber exists with both exposed chamber walls 30 and an exposed chamber roof 80, and that the aforementioned controlled variability of the exposing light 60 is used to control both the height of the chamber walls 30 and the thickness of the chamber roof 80, as described hereinabove. The lack of any exposure over the thermal element 70 creates by default an ink jet nozzle 110. At this point, the chamber walls 30 and chamber roof 80 are baked to complete the hardening process for the exposed photo-imageable material 40, but leaves any unexposed photo-imageable material 100 unaffected and removable. The removal of the unexposed photo-imageable material is accomplished by flushing with a solvent such as cyclopentanone. After flushing is complete, a final cure at a temperature of at most 200 degrees Centigrade finalizes the ink jet chamber assembly 10 drawn in Fig. 1b Fig. 1c. --

Referring to Fig. 1b Fig. 1c, there is illustrated a side view of the completed and processed ink jet chamber assembly 10 of the present invention. It is positioned upon a substrate 20, and shows chamber walls 30 upon which is situated a chamber roof 80 and an ink jet nozzle 110 created by washing out the unexposed photo-imageable material 100 (the process described in the previous paragraph). The ink jet nozzle 110 is shown disposed substantially directly above and adjacent the thermal element 70, and adjacent to a vertical support member 120. It is instructive to note that a supply port 160 is subsequently put into the substrate 20 for permitting inks or fluids to pass into the ink jet chamber assembly 10.

Referring now to Fig. 2 Fig. 2a, there is shown a side view of a plurality of ink jet chambers 10. The process as described previously was, for descriptive clarity, described for creating a single ink jet chamber 10. However, the present invention also provides the ability to produce a plurality of ink jet chamber assemblies 10 upon the same substrate 20, which greatly enhances the

reduced complexity, reduced manufacturing steps and lower costs achieved by the methods described in this invention. Those skilled in the art will readily be able to apply the above teachings to the plurality of ink jet chambers 10. Additionally, it is instructive to note that Fig. 2 Fig. 2a details a plurality of ink jet chamber assemblies 10 with essentially the same internal structure and volumes with regards to one another.

Referring next to Fig. 2a Fig. 2b, there is shown the ink jet chamber assemblies 10 situated on the substrate 20, and having different internal structure and volumes with respect to one another, such as nozzle dimensions and chamber volumes. This illustrates how the present invention can be modified by using different masks along with different exposures to control the formation of different features in a plurality of ink jet chamber assemblies 10.

Referring next to Figs. 3 and 3a Figs. 3a and 3b, there is illustrated a finished and cured ink jet chamber assembly 10 situated on substrate 20. A vertical support member 120 is a support for the chamber roof 80, but it can also be manufactured with an additional function in mind such as filtering an impurity such as dust that may be suspended within a supplied ink or fluid (not shown). This filtering function would be engineered in a manner that integrates the filter as a plurality of posts 135 across the ink jet chamber with predetermined spacing between the posts 135 for the blocking of impurities and drawn in Fig. 3a Fig. 3b. Supplied inks or fluids (not shown) would be sourced from a reservoir (not shown) through the supply port 160. Alternatively, posts 135 may be a single integrated wall composed of a porous material for permitting the filtering. Additionally, post 135 may serve as baffles. --

Please replace the paragraph beginning on page 7, line 12 with the following rewritten paragraph:

Referring next to Fig. 5 Fig. 5a, the same effect can be achieved by using a collimated light source 200 to directly expose the photo-imageable material 40 (referring back to Fig. 1 Fig. 1a) or using an un-collimated light source 210 through a third mask 190 detailed in Fig. 5a Fig. 5b. --